

CLAIMS

1. Method for strip-coating a metallic strip-shaped substrate with a band of plastic comprising the stages

- 5 (i) in-situ casting of a plastic band;
- (ii) leading the plastic band around a cooling roll;
- (iii) leading away the plastic band until the plastic band production is underway and stabilised;
- 10 (iv) bringing the plastic band and the substrate up to speed and heating the substrate to a temperature of the substrate close to the softening temperature of the part of the plastic band facing the substrate;
- (v) pressing the plastic band onto the substrate and where applicable breaking off the plastic band and stopping it being led away;
- (vi) coating the substrate with the plastic band at high speed.

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2. Method in accordance with Claim 1, characterised in that after the plastic band has been applied an extra heat treatment stage follows in order to improve adhesion.

3. Apparatus for strip-coating a metallic strip-shaped substrate with a band of plastic, comprising in combination:

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- means of conveying the metal substrate;
- a contact roll for pressing the plastic band onto the substrate;
- means of casting for casting the plastic;
- a cooling roll for making a plastic band form;

- means of feeding and guiding for bringing the plastic band to the substrate via
the contact roll.
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4. Apparatus in accordance with Claim 3, characterised in that the contact roll is
5 rubber at least on a surface with which it comes into contact with the plastic band.
5. Apparatus in accordance with Claims 3 or 4, characterised in that the means of
conveying substrate, the contact roll, the means of casting, the cooling roll and the
means of feeding and guiding are essentially duplicated, one set on each side of
10 where the substrate is situated during operation for simultaneously two-sided
coating the substrate.
6. Metal strip provided with an organic adhering layer, characterised in that the
organic layer comprises essentially amorphous PET.
- 15 7. Strip in accordance with Claim 6, whereby the organic layer has a thickness of less
than 20 μm .
8. Strip in accordance with Claims 6 or 7, whereby the organic layer has a thickness of
20 less than 15 μm .
9. Strip in accordance with Claims 6, 7 or 8, whereby the organic layer has a thickness
of less than 10 μm .

10. Strip in accordance with Claims 6, 7, 8 or 9, whereby the organic layer has a
thickness of less than 5 μm .

11. Strip in accordance with one of the Claims 6-10, whereby at least one layer consists
5 of three or more layers of plastic with as top layer a layer brightly coloured from
coating colorants yet transparent and whereby the intermediate layer covers to
white-opaque.

12. Strip in accordance with Claim 11, whereby the layer of plastic facing the metal
10 strip is uncoloured.

13. Strip manufactured with a method in accordance with Claims 1 or 2.

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